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APPLICANT : KUBOTA CORP;

INVENTOR : KATAYAMA YOSHIO;

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TITLE : HIGH SPEED STEEL TYPE SINTERED ALLOY

ABSTRACT : PURPOSE: To improve strength, wear resistance, surface roughing resistance, pitting corrosion resistance, and seizure resistance by specifying respective contents of C, Si, Mn, Cr, Mo, W, Co, etc., in a sintered alloy.

CONSTITUTION: The sintered alloy has a composition consisting of, by weight, $\leq 1.7\%$ C, $>0.6-3.5\%$ Si, $\leq 0.6\%$ Mn, $3-8\%$ Cr, $3-9\%$ Mo, $5-14\%$ W, $7-14\%$ Co, $>8-11\%$ of one or ≥ 2 elements among V, Ti, and Nb, and the balance essentially Fe. Further, if necessary, either or both of $\leq 2\%$ B and $\leq 3\%$ Ni are substituted for a part of Fe. If HIP sintering, etc., are applied to this alloy, the high-density high speed steel type sintered alloy can be formed. By using this sintered alloy as a rolling roll barrel member, roll life can be prolonged.

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≤ 2 B
 ≤ 1.7 C
S
P
 $3-8$ Cr
 $0.6-3.5$ Si
 $3-9$ Mo
 $5-14$ W
 $8-11$ V
 $8-11$ Nb
 $7-14$ Co

Fe